

OTA

WHAT IS CLAIMED IS:

1 ~~1. A method of transferring information between a subscriber and a wireless~~
 2 ~~service, comprising the steps of:~~
 3 ~~receiving a registration request for the subscriber at a service node;~~
 4 ~~determining at the service node an alternative network address associated with a~~
 5 ~~wireless service; and~~
 6 ~~transferring information between the subscriber and the wireless service using~~
 7 ~~the determined alternative network address.~~

8 ~~2. The method of claim 1, wherein said alternative network is selected from the~~
 9 ~~group consisting of a connection-oriented network and a connectionless network.~~

10 ~~3. The method of claim 2, wherein said connection-oriented network is selected~~
 11 ~~from the group consisting of a circuit switched network, a packet switched network, and~~
 12 ~~combinations thereof.~~

13 ~~4. The method of claim 2, wherein the connectionless network comprises the~~
 14 ~~Internet.~~

15 ~~5. The method of claim 4, wherein said step of determining comprises the steps of:~~
 16 ~~sending a registration notification to a Service Control Point (SCP); and~~
 17 ~~receiving, from the SCP, an IP address associated with the wireless service.~~

1 6. The method of claim 4, wherein said step of transferring is performed in
2 accordance with a wireless network protocol.

1 7. The method of claim 6, wherein the wireless network protocol is selected from
2 the group consisting of ANSI-41 and GSM.

1 8. The method of claim 4, wherein said step of determining comprises the steps of:
2 sending a registration notification comprising a service identifier and an Internet
3 Protocol (IP) address update to a SCP; and
4 forwarding the IP address update to the wireless service.

1 9. The method of claim 8, wherein the step of forwarding uses a network selected
2 from the group consisting of a connection-oriented network, a connectionless network,
3 and combinations thereof.

1 10. The method of claim 8, wherein the registration notification further comprises an
2 IP address for the serving node.

1 11. The method of claim 4, wherein the SCP is selected from the group consisting of
2 Home Location Register (HLR), Authentication Center (AC), Voice mail (VM), Digit
3 Translation Application (DTA), and Message Center (MC).

1 12. A method of using an alternative network to provide wireless services

2 comprising:

3 determining a list of wireless services to be offered to a subscriber;

4 identifying a corresponding list of alternative network addresses for each

5 service;

6 ~~communicating the wireless services list and the corresponding alternative~~
7 addresses list between a service node and a Serving Control Point (SCP).

1 13. The method of claim 12, wherein the step of communicating comprises:
2 sending the wireless services list and alternative network addresses list from the
3 service node to the SCP.

1 14. The method of claim 15, wherein the step of communicating comprises:
2 sending the wireless services list and alternative network addresses list from the
3 SCP to the service node.

1 15. The method of claim 12, wherein the list of wireless services and the
2 corresponding list of alternative network addresses each comprise two lists, wherein the
3 first wireless services list and its corresponding alternative network addresses list are
4 stored in the service node and the second wireless services list and its corresponding
5 alternative network addresses list are stored in the SCP; and the step of communicating
6 comprises exchanging the two sets of lists between the service node and the SCP.

1 16. The method of claim 13, further comprising the step of forwarding a single
2 wireless service and alternative network address from the SCP to a node associated with
3 the wireless service.

1 17. A method for providing services to a mobile station subscriber, the method
2 comprising the steps of:
3 storing a subscriber service profile;
4 receiving a registration notice;

5 storing first information identifying a service node with which the subscriber has
6 registered, and

7 exchanging second information with the identified service node via a first
8 network to enable a future information exchange with the identified service node via a
9 second alternative network.

1 ~~18. The method of claim 17 wherein said step of exchanging second information~~
2 ~~comprises the sub-step of receiving an alternative network address from the identified~~
3 ~~service node related to a wireless service.~~

4 ~~19. The method of claim 17 wherein said step of exchanging second information~~
5 ~~comprises the sub-step of transmitting an alternative network address to the identified~~
6 ~~service node related to a wireless service.~~

7 ~~20. The method according to claim 17, wherein the first network is selected from the~~
8 ~~group consisting of connection-oriented networks, connectionless networks, and~~
9 ~~combinations thereof.~~

1 ~~21. The method of claim 17, wherein the second network is selected from the group~~
2 ~~consisting of connection-oriented networks, connectionless networks, and combinations~~
3 ~~thereof.~~

4 ~~22. The method of claim 4, wherein the service node comprises a serving mobile~~
5 ~~switching center (S-MSC).~~

6 ~~23. The method of claim 12, wherein the service node comprises a serving mobile~~
7 ~~switching center (S-MSC).~~

- 1 24. ~~The~~ method of claim 17, wherein the service node comprises a serving mobile
2 switching center (S-MSC).

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